

USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L1	2461256	light or beam
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L2	45316	1 near2 polariz\$
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L3	5466	(s adj2 polariz\$) or s-polariz\$
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L4	5905	(p adj2 polariz\$) or p-polariz\$
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L5	17605	(linear\$ adj2 polariz\$) or (linear-polariz\$)
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L6	11146	(circular\$ adj2 polariz\$) or (circular-polariz\$)
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L7	4530	3 same 4
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L8	5128	5 same 6
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L9	7154	2 and (7 or 8)
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L10	7171	beamsplit\$ or beam-split\$
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L11	44362	light near2 (split\$ or separat\$)
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L12	58823	beam near2 (split\$ or separat\$)
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L13	89203	10 or 11 or 12
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L14	4715	9 and 13
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L15	69052	red same blue same green
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L16	604	14 and 15
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L17	464431	projection
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L18	495	16 and 17
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L19	2719	dichroic same 15
USPAT; US-PPGPUB; EPO; JPO; DERWENT; IBM TDB	L20	323	18 and 19

Display of L20

US 20010030779 A1	Projection device with a cross dichroic mirror set	US 6249378 B1	Mirror and projection type display apparatus 359/487
US 20010028412 A1	Projector	US 6247817 B1	Projector 353/38
US 20010022613 A1	Picture display method and apparatus	US 6247816 B1	Optical system for projection displays using spatial light modulators 353/31
US 20010015775 A1	Illumination optical system and projection type display apparatus using the same	US 6243198 B1	High efficiency electromagnetic beam projector and systems and method for implementation thereof 359/483
US 20010012092 A1	IMAGE PROJECTION SYSTEM ENGINE ASSEMBLY	US 6229646 B1	Plate-like polarizing element, a polarizing conversion unit provided with the element, and a projector provided with the unit 359/487
US 20010010596 A1	Array lens, lighting optical system, optical unit and imaging apparatus	US 6227670 B1	Projection type display apparatus 353/31
US 20010004251 A1	DISPLAY PANEL AND PROJECTION TYPE DISPLAY APPARATUS	US 6227669 B1	Illumination device and image projection apparatus comprising the device 353/31
US 20010002154 A1	Array lens, lighting optical system, optical unit and imaging apparatus	US 6224217 B1	Optical illumination apparatus and image projection apparatus 353/94
US 20010000972 A1	Optical device, and projection display device including the same	US 6220714 B1	Image display apparatus 353/122
US 20010000678 A1	Projection type display apparatus	US 6219113 B1	Method and apparatus for driving an active matrix display panel 349/42
US 6304381 B1	Illumination optical apparatus 359/495	US 6219112 B1	Illumination optical system and liquid crystal projector apparatus using the same 349/5
US 6304302 B1	Liquid crystal display system and light projection system 349/9	US 6218679 B1	Display panel and display device using the same 257/59
US 6299313 B1	Projection display apparatus and projection lens device for use therein	US 6217174 B1	Image projection 353/31
US 6292234 B1	Projection type color liquid crystal display device 348/766	US 6213606 B1	Image projection system 353/20
US 6286961 B1	Illuminating optical system and projection type display	US 6211927 B1	Display system for viewing images on the front and back surfaces of a screen 349/15
US 6281949 B1	Apparatus for displaying a picture which involves spatially modulating a beam 348/750	US 6208451 B1	Polarization conversion system, illumination system, and projector 359/247
US 6281867 B1	Display panel and projection type display apparatus 348/88	US 6204972 B1	Illumination optical system and projection-type display apparatus 359/622
US 6276801 B1	Display system 353/31	US 6203160 B1	High efficiency liquid crystal display projection system 353/84
US 6273569 B1	Illuminating optical system and projector 353/38	US 6203158 B1	Projector 353/31
US 6273567 B1	Compact multi-path LCD projector 353/20	US 6201645 B1	Array lens, lighting optical system, optical unit and imaging apparatus 359/621
US 6264331 B1	Image projector 353/31	US 6199887 B1	Optical device, and projection display device including the same 353/34
US 6262851 B1	Double-pass projection displays with separate polarizers and analyzers 359/634	US 6190013 B1	Polarized beam splitter and an illumination optical system and a projector provided with a polarized beam splitter 353/31
US 6256145 B1	Method for improving image contrast with lessened scintillation in a rear projection display apparatus 359/457	US 6186629 B1	Optical device and display apparatus 353/31
US 6254246 B1	Illumination device and image projection apparatus comprising the device 362/31	US 6183090 B1	Projection type image display apparatus 353/20
US 6250764 B1	Polarization beam splitter, polarization converter, and projector 353/31	US 6115084 A	Projection-type display apparatus 348/792
US 6249381 B1	Illuminating method and illuminating device 359/618	US 6113239 A	Projection display system for reflective light valves 353/31
US 6181310 B1	Driving method of liquid crystal apparatus 345/97	US 6111618 A	LCD projector illumination system having blue and red dichroic mirrors positioned such that blue mirror receives light before red mirror 349/5
US 6177967 B1	Voltage tuning of LCD polarization state by varying drive voltage to compensate for optical misalignment 349/33	US 6109752 A	Lighting device and projector 353/98
US 6177965 B1	Display device and projection-type display apparatus using the device 349/5	US 6109751 A	Projector and lighting optical system therefor 353/38
US 6176586 B1	Projection display apparatus 353/31	US 6108132 A	Polarized light separating/combing optical element, polarized light illuminating apparatus and projection-type display device 359/487
US 6176583 B1	Polarization conversion dichroic mirror and a liquid crystal projector 353/20	US 6101040 A	Illumination optical system and projection-type display apparatus 359/622
US 6174060 B1	Projection-type display apparatus having polarized beam splitters and an illuminating device 353/31	US 6100947 A	Liquid crystal panel substrate, liquid crystal panel and electronic apparatus using the same 349/38
US 6166792 A	Reflective LCD having reflectivity characteristics between electrodes and reflector 349/113	US 6097449 A	Liquid-crystal projector having a mirror with a specific tilt adjustment 349/5
US 6163352 A	Active matrix substrated, liquid crystal apparatus using the same the apparatus using such liquid crystal apparatus 349/106	US 6095653 A	Projection-type display apparatus 353/33
US 6157429 A	Matrix substrate having continuous even surface in drive circuit or region as well as display region and manufacturing method thereof 349/138	US 6094294 A	Optical modulator device, display and electronic apparatus 359/290
US 6157420 A	Projection-type image display apparatus 349/9	US 6094240 A	Liquid crystal display polarizing beam splitter with specific incidence 349/9
US 6157419 A	Projector 349/9	US 6092901 A	Polarizing illumination device and projection display device 362/19
US 6154320 A	Polarizing conversion device, polarizing illumination device, and apparatus and projector using the devices 359/629	US 6089720 A	Illuminating optical apparatus 353/98
US 6152566 A	Projector for modulating polarized luminous flux 353/20	US 6089718 A	Projection display device 353/31
US 6147802 A	Polarization luminaire and projection display 359/500	US 6084714 A	Polarizing illumination device and projection display device 359/627
US 6144497 A	Projection optical system 359/634	US 6082863 A	Color projection prism 353/33
US 6144492 A	Optical block and display unit 359/487	US 6078368 A	Active matrix substrate, liquid crystal apparatus using the same and apparatus using such liquid crystal apparatus 349/48
US 6144240 A	Reflection type projector with four imaging units and a color wheel 349/8	US 6070982 A	Color separation element and projection apparatus 353/20
US 6142634 A	Projector 353/38	US 6067128 A	Liquid-crystal display projector including an optical path adjuster arranged in the light path from the light source to the liquid-crystal display element 349/8
US 6142633 A	Polarized light illuminator and projection type image display apparatus 353/20	US 6062695 A	Projection type liquid crystal display device 353/38
US 6141151 A	Projection-display apparatus 359/618	US 6062694 A	Projection type display apparatus 353/31
US 6139157 A	Illuminating apparatus and projecting apparatus 353/102	US 6057897 A	Active matrix display in which adjacent transistors share a common source 349/48
US 6137635 A	Projector apparatus 359/621	US 6055097 A	Field synthesis and optical subsectioning for standing wave microscopy 359/386
US 6132049 A	Picture display apparatus and cooling apparatus for optical apparatus 353/61	US 6055027 A	Display unit and display system thereof 349/15
US 6132047 A	Polarized light illumination device and projector 353/20	US 6052214 A	System and method for producing an enhanced image 359/246
US 6130728 A	Single panel color projection LCD having a plurality of reflectors 349/9	US 6049364 A	Display panel and display device using the same 349/10
US H001876 H	High power lamp cooling 313/634	US 6046858 A	Light separation and recombination system for an off-axis projector 359/634
US 6127998 A	Matrix substrate, liquid-crystal device incorporating the matrix substrate, and display device incorporating the liquid-crystal device 345/100	US 6042237 A	Image projection module and image projection device provided with such a module 353/38
US 6124979 A	Projection display apparatus and projection lens device for use therein 359/651		
US 6123424 A	Optical system for use in an image projector 353/20		
US 6120152 A	Projection-type display apparatus 353/31		
US 6116739 A	Color projection display apparatus 352/31		
US RE36850 E	Projection-type display apparatus 353/31		

US 6042236 A	Projection type video image display device	353/31	US 5676442 A	Projection display apparatus	353/119
US 6042234 A	Polarized light illumination device and projection display device	353/20	US 5673127 A	Display panel and display device using a display panel	349/140
US 6036318 A	Projection display	353/20	US 5662400 A	Projection display system	353/31
US 6034818 A	High efficiency electromagnetic beam projector, and systems and methods for implementation thereof	359/497	US 5653520 A	Liquid crystal display projector	353/34
US 6033091 A	Projection display device	362/294	US 5648870 A	Dichroic mirror and projector having the same	359/487
US 6033077 A	Projection type picture display apparatus	353/119	US 5648860 A	Projection type color liquid crystal optical apparatus	349/10
US 6023370 A	Light polarizing device for generating a polarized light with different polarizations	359/487	US 5644432 A	Three prism color separator	359/634
US 6022110 A	Projection color liquid crystal display apparatus	353/20	US 5640259 A	Liquid crystal device with the retardation of the liquid crystal layer greater than lambda/2 and a method for driving the same	349/33
US 6018214 A	Illumination system for an image projection device	313/112	US 5633737 A	Projection-type color liquid crystal display having two micro-lens arrays	349/95
US 6010221 A	Projection type display apparatus	353/33	US 5626409 A	Projection-type display apparatus	353/31
US 6007205 A	Optical lens unit having internalized fan unit and projection apparatus housing	353/57	US 5622418 A	Projection display device	353/97
the same			US 5621551 A	Immersed dichroic system for single projection lens liquid crystal video projector	349/7
US 6005644 A	Projection display employing circular polarized light for reflection reduction	349/5	US 5621486 A	Efficient optical system for a high resolution projection display employing reflection light valves	348/756
US 6000802 A	Projection-type display apparatus	353/38	US 5617226 A	Polymer dispersed liquid crystal projection display having polarizing means	349/10
US 5986815 A	Systems, methods and apparatus for improving the contrast ratio in reflective imaging systems utilizing color splitters	359/634	US 5613749 A	Condenser lens, polarizing element, light source apparatus, and projection display apparatus	353/102
US 5986809 A	Polarization conversion element, polarization illuminator, display using the same illuminator, and projection type display	359/618	US 5602679 A	High efficiency light valve projection system	359/640
US 5982563 A	Projection-type display apparatus	359/727	US 5601351 A	High-efficiency illumination device and image projection apparatus comprising such a device	353/20
US 5982538 A	Stereoscopic image projection apparatus and telecentric zoom lens	359/465	US 5597222 A	Optical relay lens system for projection displays	353/33
US 5978136 A	Optical element, polarization illumination device, and projection display apparatus	359/487	US 5596424 A	Scanning optical system having image forming optical system and reading optical system with at least one common optical component	358/474
US 5975703 A	Image projection system	353/20	US 5594591 A	Prism system and a liquid crystal projection device	349/5
US 5973841 A	Single-plate projection-type color liquid crystal display	359/618	US 5580142 A	Image forming apparatus and projector using the same	353/31
US 5973840 A	Projection display and illuminating optical system for it	359/618	US 5579138 A	Polarizer having a glass substrate with films on either side with different wavelength characteristics and projection display using same	349/96
US 5967635 A	Polarized beam splitter and an illumination optical system and a projector provided with a polarized beam splitter	353/20	US 5577826 A	Reflecting type color image projecting apparatus	353/31
US 5959778 A	Projection-display apparatus	359/618	US 5575548 A	Full color three dimensional projector	353/31
US 5959704 A	Display device having diffraction grating	349/9	US 5572362 A	Condenser lens, polarizing element, light source apparatus, and projection display apparatus	359/487
US 5951136 A	Projection display apparatus	353/31	US 5570209 A	Color projection type display apparatus having three liquid crystal displays of same structure	349/5
US 5946054 A	Optical apparatus, projection display apparatus and optical compensation method	348/745	US 5566367 A	Plate-like polarizing element, a polarizing conversion unit provided with the element, and a projector provided with the unit	359/497
US 5932354 A	Obliquely deposited film element	428/426	US 5565933 A	Color switching apparatus for liquid crystal light valve projector	348/742
US 5921650 A	High efficiency field-sequential color projector using two SLMs	353/31	US 5552840 A	Three dimensional projection display reflecting divided polarized light on to reflective liquid crystal display elements	348/751
US 5917462 A	Display apparatus	345/32	US 5548422 A	Notch filters with cholesteric polarizers with birefringent film and linear polarizer	349/98
US 5914817 A	Thin film dichroic color separation filters for color splitters in liquid crystal display systems	359/634	US 5541673 A	Projector having a halfwave plate disposed in light-leaving side of a light valve	348/752
US 5911489 A	Optical lighting system	353/98	US 5537168 A	Projection optical apparatus comprising automatic adjustment unit	353/101
US 5909944 A	Projection-type display apparatus	353/81	US 5534949 A	Two channel field sequential color display system	348/742
US 5909316 A	Single plate projection type color liquid crystal display device	359/619	US 5530489 A	Single projection lens color projection system	348/757
US 5905540 A	Projection-type display apparatus	348/674	US 5526147 A	Polymer dispersed liquid crystal projector with diffraction gratings crystal electrodes, a variable diaphragm, and an anamorphic lens	349/8
US 5903388 A	High efficiency electromagnetic beam projector and systems and method for implementation thereof	359/497	US 5517340 A	High performance projection display with two light valves	349/5
US 5900982 A	High efficiency light valve projection system	359/619	US 5517263 A	Image projection system and method of using same	353/31
US 5899551 A	Display device having a diffusing display panel and a reflecting polarizer	349/115	US 5515202 A	Optical projector arrangement comprising a compensator	359/634
US 5897190 A	Illumination optical system, projection optical system and display apparatus using the same	353/31	US 5513035 A	Infrared polarizer	359/352
US 5896232 A	Highly efficient and compact frontlighting for polarization-based reflection light valves	359/630	US 5513023 A	Polarizing beamsplitter for reflective light valve displays having readout beams onto two opposing surfaces of the polarizer	349/9
US 5892598 A	Head up display unit, liquid crystal display panel, and method of fabricating the liquid crystal display panel	359/13	US 5512967 A	Projector	353/31
US 5883681 A	Video projector	348/751	US 549006 A	Liquid crystal light valve apparatus with a pair of non-parallel phase plates	349/117
US 5879065 A	Image projecting apparatus	353/8	US 5486884 A	Reflecting image projection screen and image projection system comprising such a screen	353/122
US 5875008 A	Liquid crystal panel and projection display with use of liquid crystal panel	349/5	US 5486878 A	Color image display apparatus with reflection mirrors simultaneously oscillated	348/757
US 5865521 A	Projection-type display apparatus	353/38	US 5485310 A	Linear polarization/conversion apparatus	359/495
US 5864374 A	Method and apparatus for image generation	348/757	US 5471331 A	Spatial light modulator element with amorphous film of germanium, carbon and silicon for light blocking layer	349/110
US 5852479 A	Color liquid crystal projector device	349/9	US 5461500 A	Polarization converting apparatus and optical instrument having the same	349/9
US 5844722 A	Internal aperture mask for embedded optics	359/637	US 5453859 A	Polarization beam splitter and projection display apparatus	349/9
US 5833341 A	Illuminating optical system and projector utilizing the same	353/98	US 5446510 A	Image display apparatus	353/20
US 5829854 A	Angled color dispersion and recombination prism	353/33	US 5428469 A	Liquid crystal display projection systems employing polarizing beam splitters and passing light through display cell from both directions	349/9
US 5826959 A	Projection image display apparatus	353/20	US 5404234 A	Projector using a hologram	359/15
US 5822128 A	Projection lenses for display elements and projection systems comprising same	359/650	US 5389982 A	Optical system for liquid crystal projector	353/37
US 5822021 A	Color shutter liquid crystal display system	348/742	US 5387953 A	Polarization illumination device and projector having the same	353/20
US 5815221 A	Projector apparatus	348/751	US 5384659 A	Condenser lens, polarizing element, light source apparatus, and projection display apparatus	359/719
US 5812223 A	Color LCD projector with three color separating polarizing beam splitters	349/9	US 5382790 A	Illumination device having beam splitting polarization means	290/216
US 5808795 A	Projection type display apparatus	359/488	US 5381278 A	Polarization conversion unit, polarization illumination apparatus provided with the unit, and projector provided with the apparatus	359/256
US 5806952 A	Projection type display device	353/119	US 5381197 A	Reflecting illumination projecting device	353/98
US 5805243 A	Liquid crystal projector using a spatial light modulator and two rotating color filters	349/5	US 5374968 A	Optics for a single-lens video projector with color-specific polarization channels	353/31
US 5801881 A	Field synthesis and optical subsectioning for standing wave microscopy	359/386	US 5365287 A	Three color channel, two-elevation optics for a single lens video projector	353/31
US 5800032 A	Self correcting projector	353/69	US 5357370 A	Polarizer and light valve image projector having the polarizer	359/495
US 5798819 A	Projection-display apparatus and method providing improved brightness of projected color image	353/33	US 5357289 A	Projector lens system having three lens groups for image projector	348/757
US 5795047 A	Projection lens and projection display apparatus	353/81	US 5347644 A	Three-dimensional image display device and systems and methods for implementation thereof	359/465
US 5790275 A	Scanning optical system	358/474	US 5327270 A	Polarizing beam splitter apparatus and light valve image projection system	349/9
US 5786934 A	Efficient optical system for a high resolution projection display employing reflection light valves	359/494	US 5321448 A	Liquid crystal projector	353/34
US 5786873 A	Efficient optical system for a high resolution projection display employing reflection light valves	348/756	US 5300942 A	High efficiency light valve projection system with decreased perception of spaces between pixels and/or lines	345/32
US 5777804 A	Projection-type display apparatus	359/727	US 5283600 A	LCD projector	353/34
US 5777789 A	Efficient optical system for a high resolution projection display employing reflection light valves	359/494	US 5278680 A	Projection type liquid crystal display system and method of polarized light component projection	349/9
US 5776769 A	Compact projection apparatus for generating high-quality images	348/752	US 5276523 A	Liquid crystal television projector with automatic focus	348/745
US 5764412 A	Polarization separation/conversion device for polarized lighting projection display unit	359/487	US 5267029 A	Image projector	348/751
US 5760875 A	Projection display device	353/31	US 5264951 A	Spatial light modulator system	349/25
US 5754260 A	Projection type color liquid crystal optical apparatus	349/10	US 5254549 A	Polymer dispersed liquid crystal color projection display apparatus	349/10
US 5751480 A	Plate-like polarizing element, a polarizing conversion unit provided with the element, and a projector provided with the unit	359/485	US 5239322 A	Display apparatus	353/31
US 5749642 A	Illuminating optical system and projector utilizing the same	353/98	US 5237435 A	Multicolor projector employing diffraction grating type liquid crystal modulators	349/8
US 5743610 A	Projection-type display apparatus	353/31	US 5237399 A	Liquid crystal color projection apparatus for modifying and projecting images obtained from liquid crystal panels	348/761
US 5738426 A	Projection type display apparatus and multi-vision projection type apparatus	353/31	US 5231433 A	Reflecting illumination projecting device	353/63
US 5726719 A	Projection-type color display device	349/8			
US 5721603 A	Illumination system and display device including such a system	349/194			
US 5716122 A	Optical apparatus using polarizing beam splitter	353/33			
US 5694247 A	Optical transmissive component with anti-reflection gratings	359/566			
US 5691785 A	Color projection type display apparatus having three liquid displays of same structure	349/8			
US 5690407 A	Shutter for display device of projection type	353/88			

US 5231431 A	Projection type display apparatus	353/31	US 4461542 A	High efficiency optical tank for three color liquid crystal light valve projection with color selective prepolarization	image 349/8
US 521982 A	Polarizing wavelength separator	349/115	US 4425028 A	High efficiency optical tank for three color liquid crystal light valve projection with color selective prepolarization and single projection lens	image 359/246
US 5200843 A	Polarized synthesis in projection type liquid crystal displays	349/9	US 4354102 A	Cursor apparatus for interactive graphic display system	250/203.1
US 5191408 A	Color imaging system with selectively openable optical shutter	348/207	US 4295159 A	Light projection system	348/761
US 5184248 A	Image projection apparatus	359/483	US 4191456 A	Optical block for high brightness full color video projection system	353/31
US 5181054 A	Device for the projection of images using two orthogonal components of polarization	353/20	US 4127322 A	High brightness full color image light valve projection system	353/31
US 5172254 A	Projection-type liquid crystal display apparatus	349/9	US 3961334 A	Combined laser recording and color projection system	346/17
US 5164821 A	Image projection system	348/762	JP 2000352760 A	POLARIZED LIGHT CONVERTER, LIGHT CONVERTING METHOD, PROJECTION DISPLAY SYSTEM AND PROJECTION DISPLAY DEVICE	
US 5153752 A	Projector	349/9	JP 2000075245 A	COLOR LIQUID CRYSTAL PROJECTOR	
US 5142387 A	Projection-type display device having light source means including a second concave mirrors	349/9	JP 11271705 A	LIQUID CRYSTAL PROJECTOR DEVICE	
US 5136426 A	Light projection apparatus	359/583	JP 11202430 A	PROJECTION TYPE IMAGE DISPLAY DEVICE	
US 5130826 A	Optical system having photoconductive members and optical means for decomposing and composing the polarized lights for a color picture display	349/9	JP 11065003 A	PROJECTION DISPLAY DEVICE	
US 5115305 A	Electrically addressable liquid crystal projection system with high efficiency and light output	348/751	JP 10253922 A	PROJECTION TYPE DISPLAY DEVICE	
US 5105289 A	Reflection type electrooptical device and a projection type display apparatus using the same	349/180	JP 10186548 A	PROJECTION TYPE DISPLAY DEVICE	
US 5105265 A	Projector apparatus having three liquid crystal panels	348/757	JP 09297352 A	PROJECTION DISPLAY DEVICE	
US 5098183 A	Dichroic optical elements for use in a projection type display apparatus	353/31	JP 05341255 A	LIGHT SOURCE UNIT AND PROJECTION TYPE LIQUID CRYSTAL IMAGE DISPLAY DEVICE	
US 5097323 A	Liquid crystal projector	348/761	JP 05257115 A	PROJECTION TYPE COLOR DISPLAY DEVICE	
US 5084807 A	Illumination system for LCD projection television	362/228	JP 04057045 A	LIQUID CRYSTAL PROJECTOR	
US 5042921 A	Liquid crystal display apparatus	349/9	JP 03239954 A	METHOD AND DEVICE FOR INSPECTING PATTERN MEMBER	
US 4969730 A	Image projection arrangement	353/31	EP 477028 A2	Image projection system.	
US 4936658 A	Projection type liquid crystal displaying device	349/9	EP 443586 A2	Projector.	
US 4868668 A	System and method for image adjustment in an optical projection system	348/745	NN9712165	High Brightness Color Liquid Crystal Display Projector	
US 4864390 A	Display system with equal path lengths	348/751	JP 11326834 A	Optical system of reflection liquid crystal projector for TV - includes reflection type liquid crystals for modulating and reprojecting light rays from polarized light beam splitter	
US 4861142 A	Projection type liquid crystal displaying device	349/8	JP 11271705 A	Reflection type liquid crystal boards for in liquid crystal projector apparatus - reflects modulated light signals of red, green and blue colors, and are projected on screen by projection lens	
US 4848879 A	Light modulating device	359/289	US 5384659 A	Large aperture condenser lens for projection display appts. - consists of bi-aspherical signal element having first convex form facing larger conjugate side and second surface facing smaller conjugate side and whose outermost circular zone is concave	
US 4836649 A	Optical layout for a three light valve full-color projector employing a dual relay lens system and a single projection lens	349/8	US 5164821 A	Colour image projection system for video signal - uses three light valves to receive red, green and blue beams and forms images corresp. to video signal for projection onto screen	
US 4827334 A	Optical system and method for image sampling in a video projection system	348/752			
US 4796978 A	Projection type liquid crystal displaying device	349/9			
US 4734578 A	Two-dimensional scanning photo-electric microscope	250/234			
US 4715684 A	Optical system for three color liquid crystal light valve image projection system	349/8			
US 4464018 A	Liquid crystal light valve image projection system with color selective prepolarization and blue mirror	349/9			

BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L1	5921	polariz\$ near3 (convert\$ or convers\$)
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L2	54389	separat\$ near3 (light or beam\$)
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L3	58024	split\$ near3 (light or beam\$)
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L4	4288	beamsplit\$
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L5	102079	2 or 3 or 4
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L6	2885	1 and 5
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L7	17441	dichroic\$
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L8	675	1 and 7
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L9	363	1 and ((two or second) adj3 component)
BRS	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	L10	74	8 and 9

Display of L10

US 6219144 B1	Apparatus and method for measuring the refractive index and optical path 356/487		length effects of air using multiple-pass interferometry	
US 6211933 B1	Reflective type liquid crystal display with scattering polarizer	349/96		
US 6190013 B1	Polarized beam splitter and an illumination optical system and a projector		provided with a polarized beam splitter	353/31
US 6186629 B1	Optical device and display apparatus	353/31		
US 6144492 A	Optical block and display unit	359/487		
US 6142634 A	Projector 353/38			
US 6142633 A	Polarized light illuminator and projection type image display apparatus		353/20	
US 6141151 A	Projection-display apparatus 359/618			
US 6137635 A	Projector apparatus 359/621			
US 6124931 A	Apparatus and methods for measuring intrinsic optical properties of a gas	356/517		
US 6111598 A	System and method for producing and displaying spectrally-multiplexed stereoscopic viewing thereof	348/57	images of three-dimensional imagery for use in flicker-free	
US 6111696 A	Brightness enhancement film 359/495			
US 6104536 A	High efficiency polarization converter including input and output		lenslet arrays	359/619
US 6099758 A	Broadband reflective polarizer	252/585		
US 6101032 A	Light fixture having a multilayer polymeric film	359/500		
US 6094410 A	Multi-layer optical recording media and method for recording and		reproducing information using the same	369/94
US 6070982 A	Color separation element and projection apparatus	353/20		
US 6057961 A	Optical film with increased gain at non-normal angles of incidence	359/494		
US 6034378 A	Method of detecting position of mark on substrate, position detection this position	250/559.29	apparatus using this method, and exposure apparatus using	
US 6034818 A	High efficiency electromagnetic beam projector, and systems and methods		for implementation thereof	359/497
US 6016159 A	Method and apparatus for producing and displaying spectrally-multiplexed stereoscopic viewing thereof	348/57	images of three-dimensional imagery for use in	
US 6008871 A	Transflective liquid crystal display device having a reflective polarizer	349/61		
US 6005838 A	Multi-layers optical recording media and system for recording and		reproducing information data	369/275.1
US 5993010 A	Two-dimensional illumination optical system and liquid crystal projector		using same	353/99
US 5989461 A	Circular UV polarizer	252/585		
US 5967635 A	Polarized beam splitter and an illumination optical system and a		projector provided with a polarized beam splitter	353/20
US 5959778 A	Projection-display apparatus 359/618			
US 5946129 A	Wavelength conversion apparatus with improved efficiency, easy		adjustability, and polarization insensitivity	359/332
US 5946054 A	Optical apparatus, projection display apparatus and optical compensation		method	348/745
US 5903388 A	High efficiency electromagnetic beam projector and systems and method		for implementation thereof	359/497
US 5894532 A	Polarization desensitizer	385/11		
US 5852479 A	Color liquid crystal projector device	349/9		
US 5838653 A	Multiple layer optical recording media and method and system for		recording and reproducing information using the same	
US 5828488 A	369/275.1			
US 5808709 A	Reflective polarizer display	359/487		
US 5760827 A	Illuminator with polarization separating anisotropic layer between light		guide and reflector	349/65
US 5748315 A	Pixel-data processing system and method for producing		spectrally-multiplexed images of three-dimensional imagery for use in	
US 5745164 A	stereoscopic viewing thereof	348/42		
US 5742333 A	Optical interference measuring apparatus and method for measuring		displacement of an object having an optical path separating	
US 5738426 A	system	356/484		
US 5721603 A	System and method for electro-optically producing and displaying		spectrally-multiplexed images of three-dimensional imagery	
US 5717485 A	for use in stereoscopic viewing thereof	348/60		
US 5657160 A	Electro-optical device for selectively transmitting polarized spectral		components	348/60
US 5648870 A	Projection type display apparatus and multi-vision projection type		display apparatus	353/31
US 5627666 A	Illumination system and display device including such a system			349/194
US 5602661 A	Foreign substance inspection apparatus 356/237.1			
US 5657160 A	Polarization plane rotator applicable to polarization converter and		projection display system	359/487
US 5648870 A	Dichroic mirror and projector having the same	359/487		
US 5627666 A	Liquid crystal phase modulator using cholesteric circular polarizers			349/74
US 5602661 A	Optical component 349/124			

US 5596424 A Scanning optical system having image forming optical system and reading component 358/474 optical system with at least one common optical

US 5594591 A Prism system and a liquid crystal projection device 349/5

US 5591508 A Coating methods and compositions for production of digitized stereoscopic polarizing images 428/105

US 5579138 A Polarizer having a glass substrate with films on either side with different wavelength characteristics and projection display using same 349/96

US 5575548 A Full color three dimensional projector 353/31

US 5504619 A Scanning drum inner face and method of scanning therefor 359/495

US 5446510 A Image display apparatus 353/20

US 5410531 A Noise reduction in a multiplex recorded optical information system 369/124.03

US 5335022 A High-contrast front projection video display system 348/744

US 5298986 A Video projection apparatus 348/762

US 5278680 A Projection type liquid crystal display system and method of polarized light component projection 349/9

US 5221982 A Polarizing wavelength separator 349/115

US 5170181 A Laser scanning apparatus 347/232

US 5168326 A Method of detecting angle of optical rotation in solution having time-dependent concentration, detection apparatus therefor, and detector cell therefor 356/368

US 5168157 A Scanning microscope with means for detecting a first and second paths 250/234 polarized light beams along first and second optical receiving

US 5115305 A Electrically addressable liquid crystal projection system with high efficiency and light output 348/751

US 4984229 A Autofocus system 369/44.24

US 4715684 A Optical system for three color liquid crystal light valve image projection system 349/8

US 4709145 A Method and apparatus for compensating fiber optic lead and connector losses in a fiber optic sensor by using a dual wavelength source and matched polarizer 250/208.5

US 4500172 A Two color liquid crystal light valve image projection system with single prepolarizer 349/9

US 4425028 A High efficiency optical tank for three color liquid crystal light valve image projection with color selective prepolarization and single projection lens 359/246

US 4346314 A High power efficient frequency conversion of coherent radiation with nonlinear optical elements 359/329

US 4343535 A Liquid crystal light valve 349/9

US 4331891 A High power efficient frequency conversion of coherent radiation with nonlinear optical elements 359/329

US 4059767 A Back-illuminated transparency contrast enhancement system 250/461.1

US 3632216 A CIRCULAR-DICHOISM MEASUREMENT SYSTEM CHARACTERIZED BY NOISE CANCELLATION 356/365

US 3597536 A DUAL BEAM LASER DISPLAY DEVICE EMPLOYING POLYGONAL MIRROR 348/196

EP 1043620 A2 Projection display system includes polarization converter for use with light source generating light beam having two light components